Electronic Systems Center

Delivering what we promised when we promised — War-winning Capabilities...On Time

Integrity - Service - Excellence

653d ELSW OVERVIEW

July 12, 2006

Mr. Bruce Hevey, SES

Director

653d Electronic Systems Wing

Outline

- Vision/Mission
- Wing Snapshot
- Organization/Initiatives
- Assured Connectivity
- Accomplishments
- JEFX – 06
- Summary

653 ELSW Vision & Mission

- Vision: Optimize the C2 Enterprise for unprecedented combat operations and support

- Mission: Acquire, deploy, and sustain AF and Joint systems to include information, communications, and airspace management capabilities to support the AF Global CONOPS

Air & Space Expeditionary Forces CONOPS

Operational CONOPS

Global Strike	Homeland Security	Global Military	Global Persistent Attack	Nuclear Response	Space & C4ISR

Functional CONOPS

Agile Combat Support for the Warfighter

653d Electronic Systems Wing Snapshot

Achieve net-centric operations where anything on the network can be dynamically integrated to support any mission

Get Connected Share Information Achieve Secure Net-Centric Operations

- 42 AFPEO/C2&CS Programs
- 7 PEO Space Programs
- 2 PEO C4I & Space Programs (Navy)
- 24 FMS

- 1242 personnel (assigned a/o 28 Feb 06)
  - 199 (16.2%) Military
  - 185 (14.8%) Civilian
  - 318 (25.6%) FFRDC
  - 540 (43.4%) A&AS

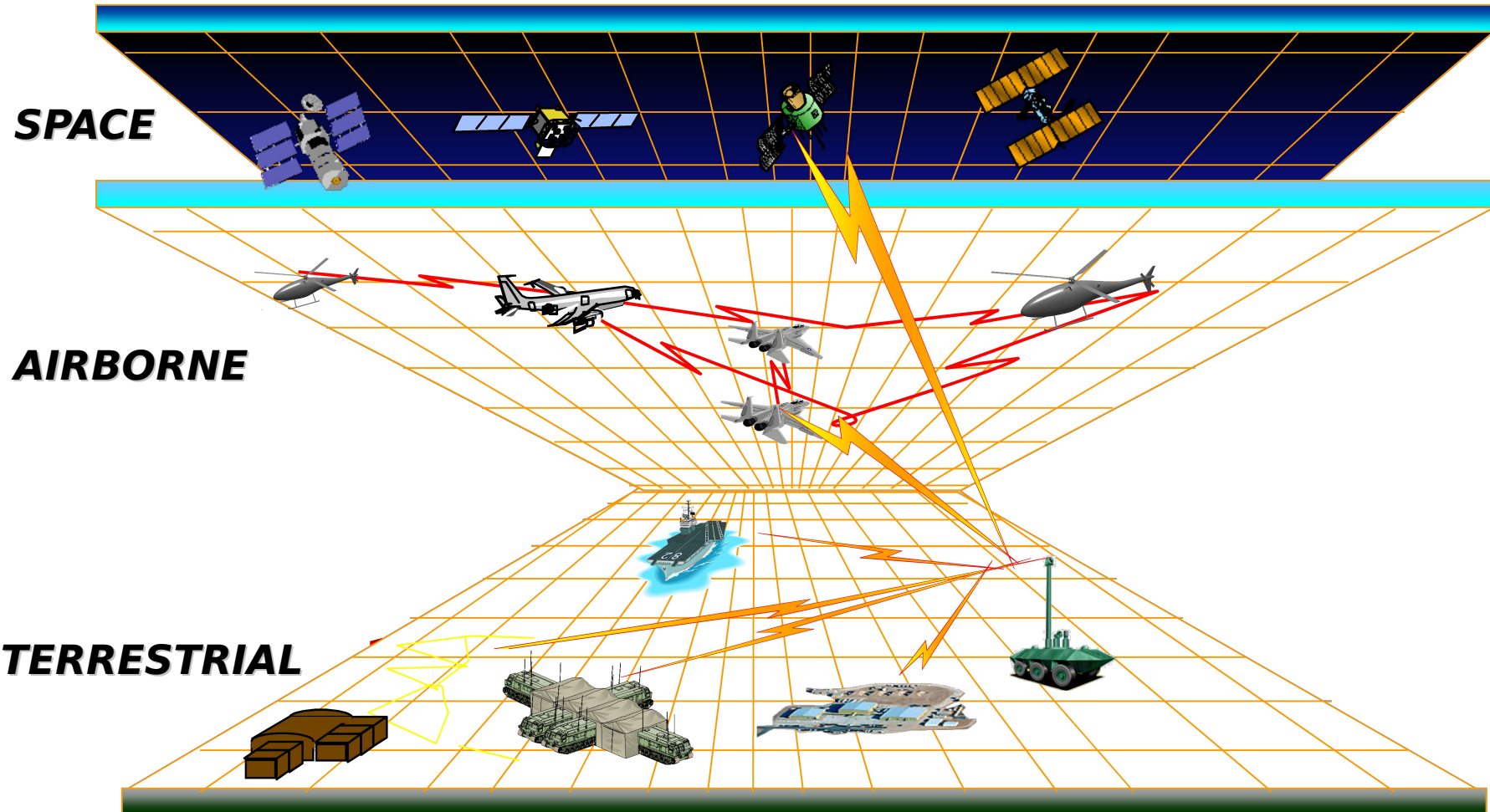- $21.3B in Program Execution (FYDP)

No Warrior Fights Alone

Assured Connectivity
Pulling it all together – a tiered strategy
Optimizing Communication Path for Information to the Warfighter

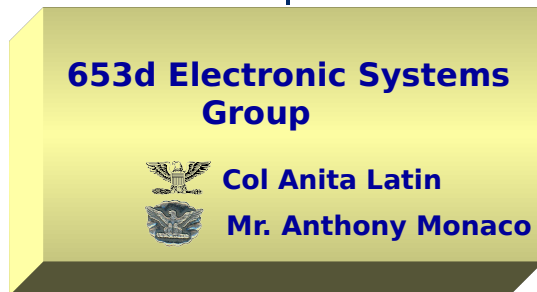*Delivering what we promised when we promised* — *War-winning Capabilities...On Time*

SPACE

AIRBORNE

TERRESTRIAL

Diverse battlefield environments require a mix of terrestrial, airborne, and satellite communications
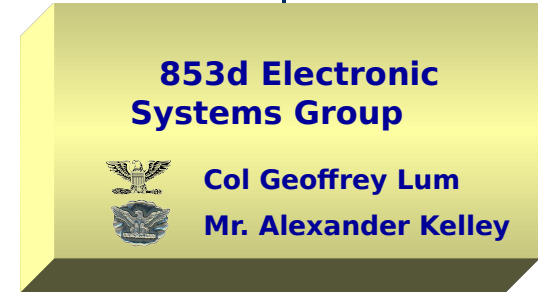
653 ELSW
Organization/Initiatives

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653d Electronic Systems Wing
Mr. Bruce Hevey, SES
Col Robert Halbert

653d Electronic Systems Group
Col Anita Latin
Mr. Anthony Monaco

753d Electronic Systems Group
Col Leslie Blackham
Col Jeffrey Hodgdon

853d Electronic Systems Group
Col Geoffrey Lum
Mr. Alexander Kelley

653d Electronic Systems Group

- FAB-T
- DSCS
- GBS
- TACP-M
- ADSI
- JSS
- TDL-Link 16
- TDL-SADL
- ROBE
- CITS
- Airborne Network
- GIG Architecture
- TSAT Support
- JNMS
- Fighter, Bomber, C2 Platform Integration
- GMT
- AITG
- AMF JTRS
- DIRECT
- GEMS
- MMRT
- TDC
- CSEL
- HDR-RF
- MMP
- MMP AEHF
- KG-3X
- GCCS-AF (I)
- SIAP
- JRE
- JTEP
- JTRS
- MP-CDL
- MEECN
- WEEMC

753d Electronic Systems Group

- Space Radar
- Counter-IED
- Capabilities Integration & Analysis
- Architecture Development
- Enterprise Planning & Integration
- Technology Planning & Integration
- System Threat Analysis
- Intel Infrastructure Analysis
- Intel Integration
- National Foreign Disclosure Policy
- Special Security Office

853d Electronic Systems Group

- DoD Advanced Automation System
- Digital Airport Surveillance Radar
- Voice Communications Switching Sys
- Airfield Automation System
- Traffic Alert & Collision Avoidance Sys
- Terrain Awareness & Warning System
- JPALS
- ATCALS
- MACS
- AFTERPS-R
- GATM (CNS/ATM)
- Global CONOPS Synchronization
- Next Generation Air Transportation System

Accomplishments

- **Focus on the Warfighter**
  - NORAD Immediate Warfighter Need
  - Theater Deployable Communications and Global Broadcast Systems support for Hurricanes Katrina and Rita
  - Battle-ready Airmen for Operation Enduring Freedom and Operation Iraqi Freedom

- **Global Information Grid Systems Group (653d ELSG)**
  - Fielding Link 16 terminals to Block 40/50 F-16s; 9 of 30 Squadrons equipped (242 of 655 a/c)
  - Completed operational installation of 50 Minuteman MEECN sites
  - Web Enabled Execution Management Capability (WEEMC) a finalist for the Institute for Defense & Government Advancement Net-Centric Warfare Award
  - Single Integrated Air Picture recognized by OSD as "setting the bar"

- **Enterprise Integration Systems Group (753d ELSG)**
  - C2 Constellation 5 year plan approved by SAF/XC
  - Orchestrated JEFX 06

Accomplishments

- **Global Air Traffic Systems Group (853d ELSG) – FY05 Shiely Award Winner**
  - National Airspace Systems MS III Full Rate Production Decision
    - ESC's nominee for CSAF Team Excellence Award
  - Communications Navigation Surveillance / Air Traffic Management Contract Award – Feb 06

- **Emphasis on the Enterprise**
  - Intelligence Division (EISG/XRI) achieved EXCELLENCE in 1st Intelligence Health Assessment from AFMC
  - Net-Centric Enterprise Solutions for Interoperability (NESI)
    - Adopting NESI standards for full acquisition life cycle
    - Establishing NESI compliance criteria and certification capability
  - Developed and chaired "Commanders Integration Board"
  - Developing cross wing initiative and transition plans

- **Program Execution**
  - 100% of assigned programs compliant with the ESC's Strategic Technical Plan
  - Completed Level 6 Operational Safety, Suitability and Effectiveness (OSS&E) certification

JEFX 06

- **JEFX 06 Main Experiment concluded on 28 April**
  - Objectives for CSAF-approved initiatives and key enablers were successful

- **4 CSAF key focus areas:**
  - Continuous Air Planning and Execution - Integrated TBMCS 1.1.4 / Theater Battle Operations Network Environment (TBONE) engine with other core CAOC systems (WEEMC, JTT, IWPC, DLARS, GCCS-COP, etc.).
  - Airborne IP Networking - Integrated and demonstrated tactical ground-airborne IP network to pass information amongst each other and back to the CAOC
    - Airborne assets including AWACS, TAC-IP enabled fighters, BACN, RAIDER, Army and SWIPE Special Ops Forces systems.
    - Created persistent, seamless battlefield-wide communications net.
  - Fusion in the AOC - Integrated ISR-Division in CAOC at Nellis with Tactical Fusion Cell at Langley through distributed operations.
  - Homeland Security/Defense - Established airborne tactical radio nodes using high-altitude balloons with COTS; Navy Global Hawk successfully employed.

Summary

- 653d is leading the way in optimizing the C2 Enterprise

- Assuring end-to-end connectivity

- Fielding war winning capabilities to the Warfighter

Get Connected
Share Information
Achieve net-centric Ops

No Warrior Fights Alone

Achieve net-centric operations where anything on the network can be dynamically integrated to support any mission